

2004 Water Quality Assessment (Final) - Category 5 Listings for WRIA 23

WRIA	Listing ID	Category	98 List?	Waterbody Name Basis	Location Information				Parameter	Remarks	Medium
23	41432	5	N	ALLEN CREEK Erickson, D. and Matthews, W., (2002), station BECM2.6T shows 1 sample exceeded the criterion in year 2003 and 2 samples exceeded the criterion in year 2002.	XO13OJ	0	16N	02W	06	Dissolved oxygen	Water
23	41969	5	N	BEAVER CREEK Erickson, D. and Matthews, W., (2002), station BCGAGEDN shows a total of 15 samples in years 1995, 1996, 1997, 1998, 1999, and 2000 exceeded the chronic criterion and a total of 7 samples in year s 1995, 1996, 1997, and 1998 exceeded the acute criterion.	HA04TR	2.862	16N	02W	06	Ammonia-N	Water
23	41970	5	N	BEAVER CREEK Erickson, D. and Matthews, W., (2002), station BCGAGEUP shows a total of 9 samples in years 1996, 1997, 1998, and 1999 exceeded the chronic criterion and a total of 2 samples in year 1998 exceeded the acute criterion.	HA04TR	5.686	16N	02W	08	Ammonia-N	Water
23	41430	5	N	BEAVER CREEK Erickson, D. and Matthews, W., (2002), station BCGAGEDN shows 2 samples exceeded the criterion in year 2003 and 2 samples exceeded the criterion in year 2002.	HA04TR	2.862	16N	02W	06	Dissolved oxygen	Water
23	41431	5	N	BEAVER CREEK Erickson, D. and Matthews, W., (2002), station BCGAGEUP shows 2 samples exceeded the criterion in year 2003 and 2 samples exceeded the criterion in year 2002.	HA04TR	5.686	16N	02W	08	Dissolved oxygen	Water
23	9490	5	N	BEAVER CREEK Erickson, D. and Matthews, W., (2002), station BCGAGEUP shows that 9 of 28 samples exceed the criterion. Erickson, D. and Matthews, W., (2002), station BCGAGEUP shows that 5 of 9 samples exceed the criterion. Sargeant et al. (2002) station BECM4.2 (BEAVER CK AT CASE RD) shows 1 excursions beyond the criterion out of 2 samples collected between 11/97 - 09/00. Sargeant et al. (2002) station BECM4.2 (BEAVER CK AT CASE RD) shows 1 excursions beyond the criterion out of 1 samples collected between 11/97 - 09/00.	HA04TR	5.686	16N	02W	08	pH	Changed from Category 2 to Category 5 on 01/14/05 due to consolidation with Listing IDs 41278 and 41279. -kk Water
23	41277	5	N	BEAVER CREEK Erickson, D. and Matthews, W., (2002), station BCGAGEDN shows that 12 of 28 samples exceed the criterion.	HA04TR	2.862	16N	02W	06	pH	Water

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				Basis						Remarks	
23	9971	5	N	BERWICK CREEK	KB60UI	2.158	13N	02W	10	Fecal Coliform	Water
Sargeant et al. (2002) station BERW1.7 (BERWICK CK AT BOROVEC RD) shows the geometric mean of 238 exceeds the criterion and that 67 % of the samples exceeds the percentile criterion from 3 samples collected during 1998.; Sargeant et al. (2002) station BERW1.7 (BERWICK CK AT BOROVEC RD) shows the geometric mean of 361 exceeds the criterion and that 53 % of the samples exceeds the percentile criterion from 15 samples collected during 1999.;											
23	6291	5	Y	BLACK LAKE	GW14BM	45.313	18N	02W	32	Total Phosphorus	Water
Phase I State Clean Lakes Restoration Project grant awarded in1994 was declined by Thurston County which had applied for the grant. Problems Encountered: Recreational uses have been severely curtailed due to severe blue-green algae blooms. Complaints have been made about skin irritation after swimming from contact with algae. Area residents and resort operators report that frequency and longevity of algae blooms have been increasing in recently years.											
23	7748	5	N	CARLISLE LAKE	BW57UE	13N	01E	30	Fecal Coliform	Water	
in	Completed Phase I State Clean Lakes Restoration Project in 1985 - Problems Encountered: Blue-green algae, tributary nutrient inputs, aquatic macrophytes, high										
on	turbidity, fecal coliform bacteria.										
1991: Moore, 1990. Control measures implemented based											
the Phase I study - sediment removal/dredging, watershed nutrient management (dairy waste BMPs, stream bank fencing).											
Fecal coliform data were previously submitted only in hardcopy form. The water segment is listed as Category 5 based on the 1998 assessment.											
23	6328	5	N	CARLISLE LAKE	BW57UE	13N	01E	30	Total Phosphorus	Water	
in	Completed Phase I State Clean Lakes Restoration Project in 1985 - Problems Encountered: Blue-green algae, tributary nutrient inputs, aquatic macrophytes, high										
on	turbidity, fecal coliform bacteria.										
1991: Moore, 1990. Control measures implemented based											
the Phase I study - sediment removal/dredging, watershed nutrient management (dairy waste BMPs, stream bank fencing).											
23	36354	5	N	CHEHALIS RIVER	DS29ZH	108.614	14N	03W	12	Dioxin	Tissue
Era-Miller et al. 2002, show an excursion beyond the National Toxic Rule criterion in a 5 fish composite of Mountain whitefish fillets sampled in 1998.											
23	8741	5	Y	CHEHALIS RIVER	DS29ZH	110.293	14N	02W	07	Total PCBs	Tissue
Davis, et al 1995. edible mountain white fish tissue exceed the criterion.											
23	15915	5	N	CHEHALIS RIVER	DS29ZH	128.787	13N	03W	02	Turbidity	Water
Hallock, 2002. shows 4 excursions beyond the criterion out of 12 samples collected between 1992 and 2001 derived by the difference between the upstream station 23A160 (Chehalis R @ Dryad) and the downstream station 23A130 (Chehalis R @ Claquato).											

WRIA	Listing ID	Category	98 List?	Waterbody Name Basis	Location Information					Parameter	Remarks	Medium
23	12536	5	N	CHEHALIS RIVER, S.F. Schlorff, 1999. show 6 excursions beyond the criterion out of 11 measurements made at the Boistfort Road Bridge during 1998-1999. Schlorff, 1999. show 2 excursions beyond the criterion out of the difference of 6 measurements made at the Boisfort Road Bridge and the Wildwood Road Bridge during 1998-1999.	AR82EA	9.238	12N	04W	01	pH	Low pH	Water
23	12537	5	N	CHEHALIS RIVER, S.F. Schlorff, 1999. show 4 excursions beyond the criterion out of 10 measurements made at the Wildwood Road Bridge during 1998-1999.	AR82EA	15.963	12N	04W	24	pH	Low pH	Water
23	36355	5	N	DILLENBAUGH CREEK Era-Miller et al. 2002, show an excursion beyond the National Toxic Rule criterion in a 5 fish composite of Cutthroat Trout fillets sampled in 1998.	EV39SR	0.758	14N	02W	38	Dioxin		Tissue
23	12534	5	N	LAKE CREEK Schlorff, 1999. show 8 excursions beyond the criterion out of 12 measurements made at the Curtis Hill Road Bridge during 1998-1999.	VY01TK	0	13N	03W	30	pH	Low pH	Water
23	12535	5	N	LOST VALLEY CREEK Schlorff, 1999. show 8 excursions beyond the criterion out of 11 measurements made at the Lost Valley Road Bridge during 1998-1999.	XQ54GH	0	12N	04W	02	pH	Low pH	Water
23	35386	5	N	MILL CREEK Sargeant (2001) unpublished data show a 7-day mean of maximum daily temperature of 19.62 degrees C with week ending on 22 July 1995, with a maximum daily temperature of 20.94 degrees C from continuous measurements collected on 19 July 1995.	UR68OS	3.518	14N	03W	34	Temperature		Water
23	35940	5	N	MILL CREEK Sargeant (2001) unpublished data show a 7-day mean of maximum daily temperature of 19.09 degrees C with week ending on 19 July 1995, with a maximum daily temperature of 21.56 degrees C from continuous measurements collected on 19 July 1995.	UR68OS	1.417	13N	03W	03	Temperature		Water
23	12532	5	N	STEARNS CREEK Schlorff, 1999. show 9 excursions beyond the criterion out of 11 measurements made at the Twin Oaks Road Bridge during 1998-1999. Schlorff, 1999. show 5 excursions beyond the criterion out of the difference of 5 measurements made at the Twin Oaks Road Bridge and the Pleasant Valley Road Bridge during 1998-1999.	EV19TA	0.632	13N	03W	11	pH	Low pH	Water
23	12533	5	N	STEARNS CREEK Schlorff, 1999. show 8 excursions beyond the criterion out of 12 measurements made at the Pleasant Valley Road Bridge during 1998-1999.	EV19TA	4.406	13N	03W	24	pH	Low pH	Water

WRIA	Listing ID	Category	98 List?	Waterbody Name Basis	Location Information				Parameter	Remarks	Medium
23	35393	5	N	STILLMAN CREEK	MQ11YB	0	12N	04W	02	Temperature	Water
Sargeant (2001) show excursions beyond the criterion from continuous measurements collected in 1998, 1999 and 2000.											
23	35394	5	N	STILLMAN CREEK	MQ11YB	3.5	12N	04W	14	Temperature	Water
Sargeant (2001) unpublished data show a 7-day mean of maximum daily temperature of 20.53 degrees C with week ending on 4 September 1998, with a maximum daily temperature of 20.95 degrees C from continuous measurements collected on 1 September 1998. Sargeant (2001) unpublished data show a 7-day mean of maximum daily temperature of 20.52 degrees C with week ending on 27 August 1999, with a maximum daily temperature of 21.31 degrees C from continuous measurements collected on 10 August 1999. Sargeant (2001) unpublished data show a 7-day mean of maximum daily temperature of 20.59 degrees C with week ending on 5 August 2000, with a maximum daily temperature of 20.82 degrees C from continuous measurements collected on 4 August 2000.											
23	35395	5	N	STILLMAN CREEK	MQ11YB	5.639	12N	04W	23	Temperature	Water
Sargeant (2001) show excursions beyond the criterion from continuous measurements collected in 1998, 1999 and 2000.											
23	35396	5	N	UNNAMED CREEK	IP53AA	0	16N	01W	27	Temperature	Water
Sargeant (2001) unpublished data show a 7-day mean of maximum daily temperature of 19.43 degrees C with week ending on 23 August 2000, with a maximum daily temperature of 19.43 degrees C from continuous measurements collected on 23 August 2000.											